## INFORMATION EXPLOSION

## Doc Inc. Penetrates Maze of Data

By CHARLES COVELL Star Business Writer

Washington is just beginning to overcome the effects of the 'information explosion."

If the term is strange it is a comparatively new but worldwide complaint. It means simply an excess of information, from numbers, tables, equations, books, magazines and newspapers to miles of computer tape.

Some 35,000 recognized scientific and engineering journals published about a million research papers last year. The Commerce Department estimates 200,000 of these contained data which must be referred to again and again.

A scientist setting forth to find information in the growing maze simply doesn't know where to begin. The average industrialization of backward Washington industry, professional is said to spend up countries and the development information storage and to keep abreast of developments duplicating methods. in his field and still falls

Inadequate data can lead to Bureau of Standards. Last year bad decisions. For example, the bureau assumed responsipoor information on the bility for setting up a National properties of some boron compounds led to the premature opening and subsequent closing of two chemical plants valued of the properties and of two chemical plants valued sciences. Scientists all over the NW. Within a year his staff had the properties of the bureau assumed responsicalled, was founded in 1952 by contracts are in life sciences, called, was founded in 1952 by contracts are in life sciences, human rehabilitation, modal teaching job at the University of Chicago to set up a one-room office at 1832 Jefferson place and international documentation.

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The properties of the bureau assumed responsito the bureau assumed at \$38 million each.

development budget is said to and any other convenient forms. Avenue and in 1961, its staff by development of a por the wasted duplicating work already completed but which institute for Applied Technology to Bethesda. In the spring of document appearing on the spring of the spring of document appearing on the spring of the s



A scientist gets buried by the "information explosion."

to 25 percent of his time trying of low-cost reproduction and retrieval. A

out the confusion is the National revenue from 1963 to 1964.

country review the literature in grown from three to 12 and Then there is duplication of their fields and choose the best another office had to be rented effort. Probably as much as 10 for inclusion in the system. in an adjacent building. percent of the nation's nearly Data is stored on punched In September, 1953, i percent of the nation's nearly Data is stored on punched In September, 1953, it moved its former size. \$15 billion annual research and cards, magnetic tape, notebooks to larger offices on Connecticut A recent

has been forgotten.

Basically, the cause of the information explosion has been the great advance in science to the great advance in science and technology since World War and technology

pioneer is Incorporated Documentation Among the leaders in sorting which almost doubled its

Doc Inc., as it prefers to be

information retrieval developedby Dr. Taube. Now it has extended to all fields.

Doc Inc. manages the Scientific and Technical Information Facility of the National Aeronautics and Space Administration into which thousands of scientific reports pour each day. These are sifted, by experts, abstracts prepared and a journal indexing the material published periodically. Information is stored in a computer and disseminated by microfiche, a transparency only 4 inches high and 6 inches longy that can carry as many as 72, pages of a manuscript.

For the seventh straight year. Doc Inc. is processing test date: of drug effects on cancer for the National Institutes of: Health. Data on more than 200,-000 chemical compounds and natural products are stored in the computers.

In child development, Doc Inc. has a contract with the National Institute of Mental Health to study the reading abilities of a? special group of students. Other contracts are in life sciences,

For Fairfax Hospital, Doc Inc. reduced a master file of patients' records to a fraction of

A recent innovation was development of a portable reader-printer in which any

and technology since World War clearinghouse for non-classified II. But other factors include the increased sophistication and complexity in research and Declassified in Part - Sanitized Copy Approved for Release © 50-Yr 2013/12/19 : CIA-RDP73-00475R000200770002-0